The Ocean Research and Education Society, Inc.

156 State Street, Boston, Massachusetts 02109 (617) 523-3454

1982-1983 Expedition Schedule

r/v REGINA MARIS

Expedition 32
2 March - 12 April
Puerto Plata - San Juan

Expedition 33
16 April - 5 May
San Juan - Washington D.C.

Expedition 34
9 May - 16 May
Washington D.C. - New York City

Expedition 35
18 May - 28 May
New York City - Boston

Expedition 36
5 July - 18 July
Gulf of Maine

Expedition 37
28 June - 1 August
Gulf of Maine

Expedition 38
19 July - 20 August
Gulf of Maine

Expedition 39
1 August - 2 September
Gulf of Maine

Expedition 40
24 August - 6 September
Gulf of Maine

Expedition 41
12 September - 19 September
Boston - Boston

Expedition 42
20 October - 8 December
Boston - San Juan

Expedition 43
14 December - 23 December
San Juan - Virgin Is. - San Juan

Expedition 44
3 January - 29 January 1983
San Juan - Puerto Plata

Expedition 45 a, b
4 February - 2 May
Puerto Plata

EXPEDITION 32

Humpback whales (*Megaptera novaeangliae*) are migrant animals, spending the summer months feeding in the biologically rich high latitudes and the winter in warm semi-tropical waters to breed and bear young. Expedition 32 marks the fifth season that ORES' researchers will spend on Silver Bank, the major breeding and calving ground for humpback whales in the northwest Atlantic. Students and scientists aboard *r/v REGINA MARIS* will use this time for three areas of study: 1) continued census work to estimate the breeding population of humpback whales and their calving rate; 2) photo identification of individual whales using the unique black/white coloration pattern on the underside of the flukes; 3) recording the acoustic behavior of the humpback, known for actually singing identifiable songs during the breeding season. Course work will center on marine biology and methods in oceanography with credit. Expedition 32 is available for two, four or the full six week participation.

EXPEDITION 33

With over 1500 miles of ocean sailing in a three week period, this voyage will cover a wide spectrum of marine environments. Participants in Expedition 33 will first visit several islands in the Central Bahamas carrying out a general investigation of their habitats. Included will be a stop at Cat Island to assist in an ongoing ORES/World Wildlife Fund conservation project on the rare Cat Island Turtle (Pseudemys felis) found only on this island. For the remainder of the voyage, from Cat Island north to Washington D.C., students will be learning ocean sampling techniques as they look at the varied marine ecosystems of the Bahama Bank, then the Gulf Stream as they ride its current north, and finally the cooler waters of Chesapeake Bay. Expedition 33 will be of particular interest to those people looking for an experience in ocean sailing aboard a Tall Ship. Fifteen hundred miles of ocean will be covered in three weeks; therefore, a majority of the time will be spent heading north under full sail. Course work will concentrate on island biology and marine ecosystems.

EXPEDITION 34

During Expedition 34 students will participate in a sea bird census in the waters of northern Chesapeake Bay, Delaware Bay and Long Island Bight. Data from the census will be used to determine the distribution and abundance of the variety of sea birds along this small section of the Atlantic seaboard. This voyage should be of special interest to ornithologists looking for a different viewpoint. Participants in Expedition 34 will also have the opportunity to see the nation's capital and New York City before and after joining the *r/v REGINA MARIS*.

EXPEDITION 35

Homeward bound for Expedition 35 *r/v REGINA MARIS* will sail from New York for Georges Bank, south of Cape Cod. Once on the bank, ORES' researchers will begin a survey of cetaceans in this region, searching particularly for Right Whales and Humpback Whales. Howard Winn from the University of Rhode Island will be aboard to join our investigation of whales migrating northward by the bank. Then the ship will set sail for her home port of Boston, docking on the 28th of May.

EXPEDITION 36

Expedition 36 is run in conjunction with New England College in Henniker, New Hampshire. The ship will leave Boston and sail north along the granite coasts of New Hampshire and Maine. While aboard, students and scientists will evaluate harbor and coastal pollution levels and examine plankton communities of local inshore habitats. At the same time observations will be made of feeding behavior of the cetacea. After spending nine days at sea, the students will spend three days ashore conducting laboratory analysis of samples collected during their voyage from Boston. Physical and chemical properties of the sea water samples will be examined. Students will be aboard the ship July fifth until the fourteenth and will then spend the remainder of their time ashore.

EXPEDITIONS 37, 38 & 39

Expeditions 37, 38 and 39 are each divided into two parts. First the students will spend two and one half weeks ashore at classroom and laboratory facilities, attending lectures by ORES' staff. The second 2½ weeks the students will be aboard *r/v REGINA MARIS* participating in humpback whale feeding ecology research. The ship will remain in the Gulf of Maine and Massachusetts Bay while performing these studies, which will include timing and videotaping of feeding, continued work at photo identification of individual whales using fluke patterns and/or the collection of Oceanographic data and samples. Courses during these expeditions will focus on marine mammal ecology and practical field research methods; there is also an opportunity for independent study with the courses totaling eight credits.

EXPEDITION 40

This two week teachers' workshop will incorporate research methods into curriculum planning. Participants will attend lectures, participate in field studies, and develop curriculum units at a shore based facility and the remaining 4 days board *r/v REGINA MARIS* assisting in an actual research program. Inservice and graduate level credit will be available.

EXPEDITION 41

Expedition 41 will continue with the feeding ecology studies started in Expeditions 37, 38, and 39. On board *r/v REGINA MARIS* student researchers will examine different areas in the Gulf of Maine providing new data to be compared with the previous four expeditions. This information will allow us to see differences between different geographic areas.

EXPEDITION 42

With Expedition 42 *r/v REGINA MARIS* begins her long voyage to the south, heading for the warm waters of the Caribbean. At the same time the humpback whales will also be heading south to their winter breeding and calving grounds off the Dominican Republic. On the way south the ship will stop in Bermuda where students will take part in a tropical marine ecology course at the Bermuda Biological Station at St. Georges. After a brief stay in Bermuda the ship will once again put to sea and sail to the Southern Bahamas where course work will be applied in a study of the Bahama's marine environment. On board the ship throughout the expedition a class will be taught in marine mammal biology; credit will be available for these classes and independent studies.

EXPEDITION 43

Participants in Expedition 43 will take a field course in Tropical Marine Ecosystems and then apply lecture topics to an examination and sampling of coral reefs and their associated marine systems in the waters around Puerto Rico and the Virgin Islands. Some time will also be spent observing the whales in these areas.

EXPEDITION 44

Expedition 44 will commence the sixth season ORES' researchers will monitor the humpback whale population on the winter breeding grounds. The ship will spend most of the expedition on Silver Bank continuing the research of the previous season as described under Expedition 32. *r/v REGINA MARIS* will remain on the banks throughout the winter months in order to watch the rise and subsequent fall of the population due to migration. This expedition will observe the whales as they arrive from the north.

EXPEDITION 45 a, b

Expeditions 45 a and b will each run three months, half the time being spent on board *r/v REGINA MARIS* and the other half being spent in a classroom setting ashore. A full college semester's credit will be available to students. Classes will deal with various aspects of marine mammal biology and oceanography. The ship will remain in the Caribbean for a portion of this time, and then proceed northward.

Average tuition for most expeditions is $500 per week. Scholarships and loans are available to individual students on a basis of financial need.

Dates of embarkation and ports of call are all subject to change with little notice.

The society does not discriminate with respect to race, color, sex, creed, or religious beliefs. All student applications are reviewed impartially and all decisions are based on information provided.

All students are expected to participate fully in the routine operation of the ship by standing watches, going aloft to set or stow sails, help with the maintenance and cleaning of the ship as well as attend lectures and assist the scientists in primary data collection, whale observations and oceanographic sample collection.